



STORAGE SYSTEM - INDOOR MODULAR 25.6KWH/81.9KWH



Simple. Reliable. Efficient.



High
Performance



Smart Battery
Management



Long
Lifecycle



Modular &
Scalable Design



Thermal
Protection



High Voltage
System

**ESS-TT-ID-25.60KWH / ESS-TT-ID-40.96KWH / ESS-TT-ID-61.44KWH /
ESS-TT-ID-81.92KWH**

TommaTech's high-voltage battery system offers an efficient solution for both commercial and industrial energy storage needs, with its modular structure, smart safety features, and expandable capacity. Equipped with LFP cell technology, the system delivers over 6000 charge-discharge cycles, scalable capacity up to 81.92 kWh, and reliable performance across a wide temperature range. With support for CAN and RS485 communication protocols, remote firmware updates, and easy installation, this future-ready system is fully optimized for seamless compatibility with TommaTech's Maxi Series M50K and M80K hybrid inverter models.



ESS-TT-ID-25.60KWH

ESS-TT-ID-40.96KWH

ESS-TT-ID-61.44KWH

ESS-TT-ID-81.92KWH

MAIN PARAMETER

MAIN PARAMETER		ESS-TT-ID-25.60KWH	ESS-TT-ID-40.96KWH	ESS-TT-ID-61.44KWH	ESS-TT-ID-81.92KWH
Cell Chemistry		LiFePO ₄			
Module Energy (kWh)		5.12			
Module Nominal Voltage (V)		51.2			
Module Capacity (Ah)		100			
Battery Module Number		ESS-TT-ID-25.60KWH	ESS-TT-ID-40.96KWH	ESS-TT-ID-61.44KWH	ESS-TT-ID-81.92KWH
Battery Module Qty In Series (Optional)		5 (Min)	8	12	16
System Nominal Voltage (V)		256	409.6	614.4	819.2
System Operating Voltage (V)		220 ~ 292	352 ~ 467.2	528 ~ 700.8	704 ~ 934.4
System Energy (kWh)		25.6	40.96	61.44	81.92
System Usable Energy (kWh) ¹		23.04	36.86	55.3	73.73
Rated DC Power (kW)		25.6	40.96	61.44	81.92
Charge / Discharge Current (A) ²	Recommend	50			
	Nominal	100			
	Peak Discharge (2 mins, 25°C)	125			
Working Temperature (°C)	Charge : 0 ~ 55 / Discharge : -20 ~ 55				
Status Indicator	Yellow : Battery High Voltage Power On Red : Battery System Alarm				
Communication Port	CAN2.0 / RS485				
Humidity	5% ~ 85%RH				
Altitude	≤3000m				
IP Rating of Enclosure	IP20				
Weight Approximate (kg)	249	387	571	755	
Installation Location	Rack Mounting				
Storage Temperature (°C)	0 ~ 35				
Recommend Depth of Discharge	90%				
Cycle Life	25±2°C, 0.5C / 0.5C, EOL70%≥6000				
Warranty ³	5 years				
Certification	UN38.3				

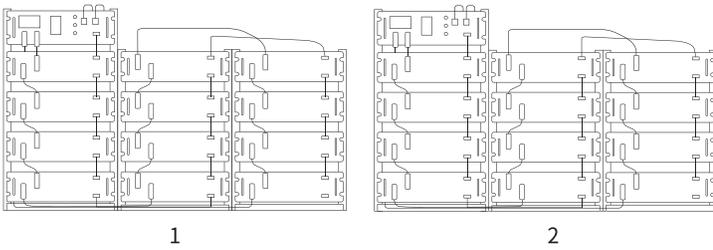
1. DC Usable Energy, test conditions : 90% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

2. The current is affected by temperature and SOC.

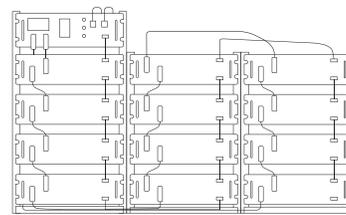
3. The warranty is due whichever reached first of warranty period or life cycle power.

Typical Application Scenarios

ESS-TT-ID-61.44KWH

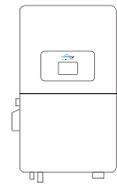


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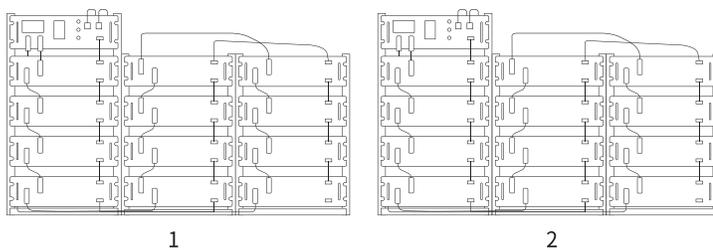
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TommaTech M50K
 Hybrid Inverter

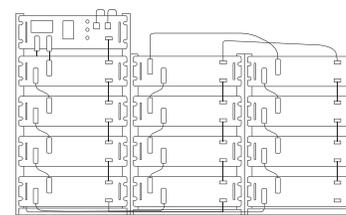


Maximum support for 16 racks of batteries in parallel

ESS-TT-ID-61.44KWH

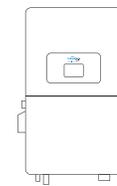


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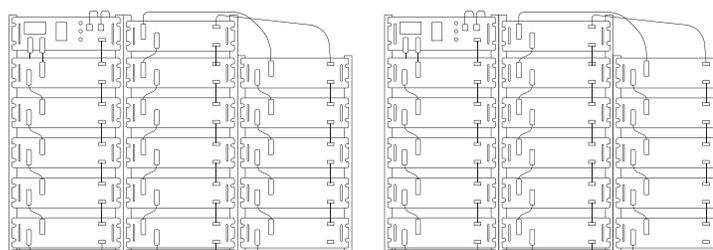
TommaTech M50K
 Hybrid Inverter



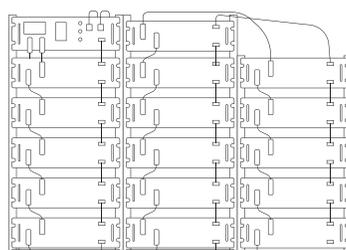
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Maximum support for 10 inverters in AC parallel operation

ESS-TT-ID-81.92KWH



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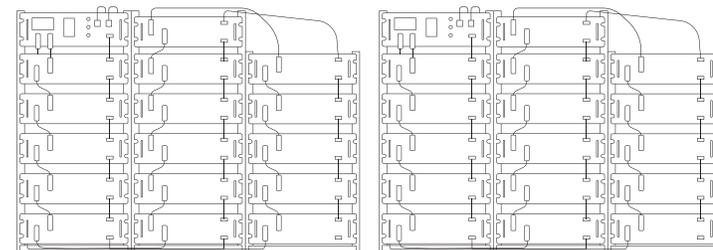
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TommaTech M80K
 Hybrid Inverter

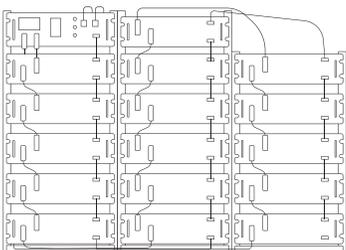


Maximum support for 16 clusters of batteries in parallel

ESS-TT-ID-81.92KWH

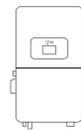


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TommaTech M80K
 Hybrid Inverter



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Maximum support for 10 inverters in AC parallel operation